

SECTION 2. FORMS PTO/SB/08A and 08B (formerly Form PTO-1449)**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s): Liew et al. Attorney Docket: 3155/119
Serial No: 10/665,725 Art/Group Unit: 3737
Filing Date: September 16, 2003 Examiner Name: Ramirez, John Fernando
Conf. No.: 4659
Invention: NOVEL IMAGING MARKERS IN MUSCULOSKELETAL DISEASE

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

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Examiner Initials	Reference Number	Document Number	Issue Date	Inventor	Class/ Subclass
	AA	US 2,274,808	Mar. 3, 1942	Rinn	250/69
	AB	US 3,924,133	Dec. 2, 1975	Reiss	250/408
	AC	US 4,012,638	Mar. 15, 1977	Altschuler et al.	250/491
	AD	US 4,126,789	Nov. 21, 1978	Vogl et al.	250/505
	AE	US 4,233,507	Nov. 11, 1980	Volz	250/252
	AF	US 4,251,732	Feb. 17, 1981	Fried	250/479
	AG	US 4,298,800	Nov. 3, 1981	Goldman	250/445T
	AH	US 4,356,400	Oct. 26, 1982	Polizzi et al.	378/138
	AI	US 4,400,827	Aug. 23, 1983	Spears	378/207
	AJ	US 4,593,400	Jun. 3, 1986	Mouyen	378/99
	AK	US 4,649,561	Mar. 10, 1987	Arnold	378/207
	AL	US 4,686,695	Aug. 11, 1987	Macovski	378/146
	AM	US 4,782,502	Nov. 1, 1988	Schultz	378/18
	AN	US 4,922,915	May 8, 1990	Arnold et al.	128/653 R
	AO	US 4,956,859	Sep. 11, 1990	Lanza et al.	378/157
	AP	US 4,985,906	Jan. 15, 1991	Arnold	378/18
	AQ	US 5,001,738	Mar. 19, 1991	Brooks	378/170
	AR	US 5,090,040	Feb. 18, 1992	Lanza et al.	378/62
	AS	US 5,122,664	Jun. 16, 1992	Ito et al.	250/327.2
	AT	US 5,127,032	Jun. 30, 1992	Lam et al.	378/189
	AU	US 5,150,394	Sep. 22, 1992	Karellas	378/62
	AV	US 5,172,695	Dec. 22, 1992	Cann et al.	128/653.1
	AW	US 5,187,731	Feb. 16, 1993	Shimura	378/207
	AX	US 5,200,993	Apr. 6, 1993	Wheeler et al.	379/96
	AY	US 5,222,021	Jun. 22, 1993	Feldman et al.	364/413.14
	AZ	US 5,228,445	Jul. 20, 1993	Pak et al.	128/660.01
	BA	US 5,235,628	Aug. 10, 1993	Kalender	378/207
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	BC	US 5,270,651	Dec. 14, 1993	Wehrli	324/308
	BD	US 5,271,401	Dec. 21, 1993	Fishman	128/654
	BE	US 5,335,260	Aug. 2, 1994	Arnold	378/207
	BF	US 5,384,643	Jan. 24, 1995	Inga et al.	358/403
	BG	US 5,476,865	Dec. 19, 1995	Panetta et al.	514/369
	BH	US 5,493,593	Feb. 20, 1996	Müller et al.	378/19
	BI	US 5,493,601	Feb. 20, 1996	Fivez et al.	378/207
	BJ	US 5,513,240	Apr. 30, 1996	Hausmann et al.	378/170
	BK	US 5,521,955	May 28, 1996	Gohn et al.	378/18
	BL	US 5,537,483	Jul. 16, 1996	Stapleton et al.	382/309
	BM	US 5,562,448	Oct. 8, 1996	Mushabac	433/215
	BN	US 5,565,678	Oct. 15, 1996	Manian	250/252.1
	BO	US 5,592,943	Jan. 14, 1997	Buhler et al.	128/661.03
	BP	US 5,600,574	Feb. 4, 1997	Reitan	364/552
	BQ	US 5,657,369	Aug. 12, 1997	Stein et al.	378/208
	BR	US 5,687,210	Nov. 11, 1997	Maitrejean et al.	378/57
	BS	US 5,769,072	Jun. 23, 1998	Olsson et al.	128/205.13
	BT	US 5,769,074	Jun. 23, 1998	Barnhill et al.	128/630
	BU	US 5,772,592	Jun. 30, 1998	Cheng et al.	600/407
	BV	US 5,852,647	Dec. 22, 1998	Schick et al.	378/53
	BW	US 5,864,146	Jan. 26, 1999	Karellas	250/581
	BX	US 5,886,353	Mar. 23, 1999	Spivey et al.	250/370.09
	BY	US 5,915,036	Jun. 22, 1999	Grunkin et al.	382/132
	BZ	US 5,917,877	Jun. 29, 1999	Chiabrera et al.	378/5.3
	CA	US 5,931,780	Aug. 3, 1999	Giger et al.	600/407
	CB	US 5,945,412	Aug. 31, 1999	Fuh et al.	514/176
	CC	US 5,948,692	Sep. 7, 1999	Miyauti et al.	436/501
	CD	US 6,029,078	Feb. 22, 2000	Weinstein et al.	600/407
	CE	US 6,064,716	May 16, 2000	Siffert et al.	378/53
	CF	US 6,077,224	Jun. 20, 2000	Lang et al.	600/437

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Examiner Initials	Reference Number	Document Number	Issue Date	Inventor	Class/ Subclass
	CG	US 6,156,799	Dec. 5, 2000	Hartke et al.	514/573
	CH	US 6,178,225	Jan. 23, 2001	Zur et al.	378/98.2
	CI	US 6,205,348	Mar. 20, 2001	Giger et al.	600/407
	CJ	US 6,215,846	Apr. 10, 2001	Mazess et al.	378/62
	CK	US 6,226,393	May 1, 2001	Grunkin et al.	382/128
	CL	US 6,246,745	Jun. 12, 2001	Bi et al.	378/54
	CM	US 6,248,063	Jun. 19, 2001	Barnhill et al.	600/300
	CN	US 6,249,692	Jun. 19, 2001	Cowin	600/407
	CO	US 6,252,928	Jun. 26, 2001	MacKenzie	378/54
	CP	US 6,285,901	Sep. 4, 2001	Taicher et al.	600/410
	CQ	US 6,289,115	Sep. 11, 2001	Takeo	382/130
	CR	US 6,302,582	Oct. 16, 2001	Nord et al.	378/207
	CS	US 6,315,553	Nov. 13, 2001	Sachdeva et al.	433/24
	CT	US 6,320,931	Nov. 20, 2001	Arnold	378/56
	CU	US 6,377,653	Apr. 23, 2002	Lee et al.	378/54
	CV	US 6,411,729	Jun. 25, 2002	Grunkin	382/132
	CW	US 6,430,427	Aug. 6, 2002	Lee et al.	600/407
	CX	US 6,449,502	Sep. 10, 2002	Ohkubo	600/407
	CY	US 6,463,344	Oct. 8, 2002	Pavloskaia et al.	700/98
	CZ	US 6,501,827	Dec. 31, 2002	Takasawa	378/116
	DA	US 6,556,698	Apr. 29, 2003	Diano et al.	382/132
	DB	US 6,690,761	Feb. 10, 2004	Lang et al.	378/56
	DC	US 6,694,047	Feb. 17, 2004	Farrokhnia et al.	382/132
	DD	US 6,717,174	Apr. 6, 2004	Karellas	250/582
	DE	US 6,799,066	Sep. 28, 2004	Steines et al.	600/407
	DF	US 6,807,249	Oct. 19, 2004	Dinten et al.	378/54
	DG	US 6,811,310	Nov. 2, 2004	Lang et al.	378/169
	DH	US 6,824,309	Nov. 30, 2004	Robert-Coutant et al.	378/207
	DI	US 6,829,378	Dec. 7, 2004	DiFilippo et al.	382/128
	DJ	US 6,835,377	Dec. 28, 2004	Goldberg et al.	424/93.7

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Examiner Initials	Reference Number	Document Number	Issue Date	Inventor	Class/ Subclass
	DK	US 6,836,557	Dec. 28, 2004	Tamez-Pena et al.	382/128
	DL	US 6,895,077	May 17, 2005	Karellas et al.	378/98.3
	DM	US 6,904,123	Jun. 7, 2005	Lang	378/54
	DN	US 6,934,590	Aug. 23, 2005	Ogawa	700/19
	DO	US 6,975,894	Dec. 13, 2005	Wehrli et al.	600/407
	DP	US 7,050,534	May 23, 2006	Lang	378/54
	DQ	US 7,058,159	Jun. 6, 2006	Lang et al.	378/54
	DR	US 7,120,225	Oct. 10, 2006	Lang et al.	378/54
	DS	US 7,184,814	Feb. 27, 2007	Lang et al.	600/416
	DT	US 7,239,908	Jul. 3, 2007	Alexander et al.	600/427
	DU	US 7,245,697	Jul. 17, 2007	Lang	378/54
	DV	US 7,292,674	Nov. 6, 2007	Lang	378/54
	DW	US 7,379,529	May 27, 2008	Lang	378/54
	DX	US 7,467,892	Dec. 23, 2008	Lang et al.	378/207
	DY	US 7,545,964	Jun. 9, 2009	Lang et al.	382/128
	DZ	US 7,580,504	Aug. 25, 2009	Lang et al.	378/56
	EA	US 7,660,453	Feb. 9, 2010	Lang	382/132
	EB	US 7,664,298	Feb. 16, 2010	Lang et al.	382/128
	EC	US 7,676,023	Mar. 9, 2010	Lang	378/54

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Examiner Initials	Reference Number	Document Number	Publication Date	Inventor	Class/ Subclass
	ED	US 2002/0087274	Jul. 4, 2002	Alexander et al.	702/19
	EE	US 2002/0159567	Oct. 31, 2002	Sako et al.	378/117
	EF	US 2002/0186818	Dec. 12, 2002	Arnaud et al.	378/165

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	EG	US 2002/0194019	Dec. 19, 2002	Evertsz	705/2
	EH	US 2002/0196966	Dec. 26, 2002	Jiang et al.	382/132
	EI	US 2003/0015208	Jan. 23, 2003	Lang et al.	128/922
	EJ	US 2003/0198316	Oct. 23, 2003	Dewaele et al.	378/54
	EK	US 2004/0106868	Jun. 3, 2004	Liew et al.	600/442
	EL	US 2004/0242987	Dec. 2, 2004	Liew et al.	600/407
	EM	US 2004/0247074	Dec. 9, 2004	Langton	378/54
	EN	US 2005/0015002	Jan. 20, 2005	Dixon et al.	600/407
	EO	US 2005/0148860	Jul. 7, 2005	Liew et al.	600/410
	EP	US 2005/0240096	Oct. 27, 2005	Ackerman et al.	600/410
	EQ	US 2006/0062442	Mar. 23, 2006	Arnaud et al.	382/128
	ER	US 2007/0047794	Mar. 1, 2007	Lang et al.	382/132
	ES	US 2007/0274442	Nov. 29, 2007	Gregory et al.	378/54
	ET	US 2008/0031412	Feb. 7, 2008	Lang et al.	378/54
	EU	US 2008/0058613	Mar. 6, 2008	Lang et al.	600/300
	EV	US 2008/0097794	Apr. 24, 2008	Arnaud et al.	705/3
	EW	US 2008/0219412	Sep. 11, 2008	Lang	378/207
	EX	US 2009/0207970	Aug. 20, 2009	Lang	378/38
	EY	US 2009/0225958	Sep. 10, 2009	Lang	378/207
	EZ	US 2010/0014636	Jan. 21, 2010	Lang et al.	378/56

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Examiner Initials	Reference Number	Country Code	Document Number	Publication Date	Patentee/ Applicant	Class/ Subclass
	FA	CA	2342344	Mar. 9, 2000	Arch Development Corporation	G06K 9/00
	FB	DE	19853965	May 31, 2000	Siemens AG	A61F 2/28

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Examiner Initials	Reference Number	Country Code	Document Number	Publication Date	Patentee/ Applicant	Class/ Subclass
	FC	DE	19853965 (English Abstract)	May 31, 2000	Siemens AG	A61F 2/28
	FD	EP	0314506	May 3, 1989	The Governors of the University of Alberta	A61B 6/14
	FE	EP	0570936	Aug. 9, 2000	Aloka Co. Ltd.	A61B 8/08
	FF	EP	0678191	Feb. 21, 2001	Arnold	G01D 18/00
	FG	EP	0797952	Oct. 1, 1997	Hologic, Inc.	A61B 8/08
	FH	EP	1069395	Jul. 12, 2006	Nitto Denko Corp.	G01B 3/10
	FI	EP	1230896	Aug. 14, 2002	Herzog	A61B 6/14
	FJ	EP	1230896 (English Abstract)	Aug. 14, 2002	Herzog	A61B 6/14
	FK	EP	1283492	Feb. 12, 2003	Arch Development Corporation	G06F 19/00
	FL	EP	1349098	Oct. 1, 2003	Agfa-Gevaert N.V.	G06F 19/00
	FM	EP	1357480	Oct. 29, 2003	Agfa-Gevaert N.V.	G06F 17/00
	FN	EP	1424650	Jun. 2, 2004	Canon Kabushiki Kaisha	G06F 19/00
	FO	EP	1598778	Nov. 23, 2005	Agfa-Gevaert	G06T 3/40
	FP	GB	2023920	Jan. 3, 1980	Thoro-Ray Inc.	H01J 35/14
	FQ	JP	05 099829	Apr. 23, 1993	Matsushita Electric Ind. Co. Ltd.	G01N 9/24
	FR	JP	05 099829 (English Abstract)	Apr. 23, 1993	Matsushita Electric Ind. Co. Ltd.	G01N 9/24
	FS	JP	08 186762	Jul. 16, 1996	Toshiba Medical Eng.	H04N 5/325
	FT	JP	08 186762 (English Abstract)	Jul. 16, 1996	Toshiba Medical Eng.	H04N 5/325

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Examiner Initials	Reference Number	Country Code	Document Number	Publication Date	Patentee/ Applicant	Class/ Subclass
	FU	JP	10 145396	May 29, 1998	Siemens AG	H04L 12/28
	FV	JP	10 145396 (English Abstract)	May 29, 1998	Siemens AG	H04L 12/28
	FW	JP	10 262959	May 29, 1998	Dainippon Printing Co. Ltd.	A61B 6/00
	FX	JP	10 262959 (English Abstract)	Oct. 6, 1998	Dainippon Printing Co. Ltd.	A61B 6/00
	FY	JP	11 069136	Mar. 9, 1999	Canon KK	H04 1/387
	FZ	JP	11 069136 (English Abstract)	Mar. 9, 1999	Canon KK	H04N 1/387
	GA	JP	11 112877	Apr. 23, 1999	Fuji Photo Film Co. Ltd.	H04N 5/325
	GB	JP	11 112877 (English Abstract)	Apr. 23, 1999	Fuji Photo Film Co. Ltd.	H04N 5/325
	GC	JP	62 266053	Nov. 18, 1987		A61C 19/04
	GD	JP	62 266053 (English Translation of Claim 1)	Nov. 18, 1987		A61C 19/04
	GE	JP	2000 126168	May 9, 2000	Teijin Ltd.	A61B 6/00
	GF	JP	2000 126168 (English Abstract)	May 9, 2000	Teijin Ltd.	A61B 6/00
	GG	JP	2000 139889	May 23, 2000	Canon KK	A61B 6/00
	GH	JP	2000 139889 (English Abstract)	May 23, 2000	Canon KK	A61B 6/00

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	GI	JP	2002 045722	Feb. 12, 2000	Inax Corp.	B02C 18/42
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Examiner Initials	Reference Number	Country Code	Document Number	Publication Date	Patentee/ Applicant	Class/ Subclass
	GJ	JP	2002 045722 (English Abstract)	Feb. 12, 2000	Inax Corp.	A61B 6/00
	GK	JP	2003 230557	Aug. 19, 2003	Kajima Isamu	A61B 6/00
	GL	JP	2003 230557 (English Abstract)	Aug. 19, 2003	Kajima Isamu	A61B 6/00
	GM	WO	94/012855	Jun. 9, 1994	Arnold	G01D 18/00
	GN	WO	95/014431	Jun. 1, 1995	Arch Development Corporation	A61B 5/103
	GO	WO	99/008597	Feb. 25, 1999	Mendlein et al.	A61B 8/00
	GP	WO	99/045371	Sep. 10, 1999	Image Analysis, Inc.	G01N 23/06
	GQ	WO	99/045845	Sept. 16, 2009	Lang et al.	A61B 8/00
	GR	WO	99/052331	Oct. 14, 1999	Miles	H05G 1/10
	GS	WO	00/033157	Jun. 8, 2000	Hologic, Inc.	G06F
	GT	WO	01/038824	May 31, 2001	Hologic, Inc.	G01B 15/02
	GU	WO	01/063488	Aug. 30, 2001	Healthscreen International, Inc.	G06F 17/30
	GV	WO	01/065449	Sep. 7, 2001	Medeview.com, Inc.	G06F 17/60
	GW	WO	02/017789	Mar. 7, 2002	Osteonet.com, Inc.	A61B 6/00
	GX	WO	02/030283	Apr. 18, 2002	Osteonet.com, Inc.	A61B 6/00
	GY	WO	02/096284	Dec. 5, 2002	Imaging Therapeutics	A61B 5/00
	GZ	WO	03/071934	Sep. 4, 2003	Imaging Therapeutics, Inc.	A61B
	HA	WO	03/073232	Sep. 4, 2003	Imaging Therapeutics, Inc.	G06F
	HB	WO	03/088085	Oct. 23, 2003	Arizona Board of Regents	G06F 17/30
	HC	WO	2004/019256	Mar. 4, 2004	Imaging Therapeutics, Inc.	G06F 19/00

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	HD	WO	2004/025541	Mar. 25, 2004	Imaging Therapeutics, Inc.	G06F 19/00
	HE	WO	2004/062495	Jul. 29, 2004	Imaging Therapeutics, Inc.	A61B 5/00
	HF	WO	2004/086972	Oct. 14, 2004	Imaging Therapeutics, Inc.	A61B 6/00
	HG	WO	2004/096048	Nov. 11, 2004	Wright State University	A61B 6/00
	HH	WO	2005/027732	Mar. 31, 2005	Imaging Therapeutics, Inc.	A61B
	HI	WO	2006/033712	Mar. 30, 2006	Imaging Therapeutics, Inc.	A61B 6/00
	HJ	WO	2006/034018	Mar. 30, 2006	Imaging Therapeutics, Inc.	G06T 7/00
	HK	WO	2008/034101	Mar. 20, 2008	Imaging Therapeutics, Inc.	Not Classified

OTHER DOCUMENTS			
Examiner Initials	Reference Number	Author	Title of Article, Title of Journal, Volume Number, Page Numbers, Date
	HL	Barker	"Case Method: Entity Relationship Modeling" (Computer Aided Systems Engineering), 1 st Ed., Addison-Wesley Longman Pub. Co., Inc., 2 pages (Abstract Pages Only) (1990)

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OTHER DOCUMENTS			
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	HM	Bauer et al.	"Biochemical Markers of Bone Turnover and Prediction of Hip Bone Loss in Older Women: The Study of Osteoporotic Fractures," <i>Journal of Bone and Mineral Research</i> , Vol. 14, pp. 1404-1410 (1999)
	HN	Beck et al.	"Experimental Testing of a DEXA-Derived Curved Beam Model of the Proximal Femur," <i>Journal of Orthopaedic Research</i> , Vol. 16, No. 3, pages 394-398 (1998)
	HO	Black et al.	"An Assessment Tool for Predicting Fracture Risk in Postmenopausal Women" <i>Osteoporosis International</i> , Vol. 12, pp. 519-528 (2001)
	HP	Cann	"Quantitative CT for Determination of Bone Mineral Density: A Review," <i>Radiology</i> , Vol. 166, No. 2, pp. 509-522 (1988)
	HQ	Cheal et al.	"Role of Loads & Prosthesis Material Properties on the Mechanics of the Proximal Femur After Total Hip Arthroplasty," <i>J. Orthop. Res.</i> , Vol. 10, No. 3, pp. 405-422 (1992)
	HR	Cootes et al.	"Anatomical statistical models and their role in feature extraction," <i>The British Journal of Radiology</i> , Special Issue, 7 pages [S133-S139] (2004)
	HS	Cootes et al.	"Statistical models of appearance for medical image analysis and computer vision," <i>Proc. SPIE Medical Imaging</i> , 14 pages, (2001)
	HT	Cootes	"An Introduction to Active Shape Models," <i>Image</i>

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			<i>Processing and Analysis</i> , Ch. 7, pp. 1-26 (2000)
	HU	Cortet et al.	"Bone Microarchitecture and Mechanical Resistance," <i>Joint Bone Spine</i> , Vol. 68, pp. 297-305 (2001)

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Examiner Initials	Reference Number	Author	Title of Article, Title of Journal, Volume Number, Page Numbers, Date
	HV	Crabtree et al.	"Improving Risk Assessment: Hip Geometry, Bone Mineral Distribution and Bone Strength in Hip Fracture Cases and Controls. The EPOS Study," <i>Osteoporosis Int.</i> , Vol. 13, pp. 48-54 (2002)
	HW	Crawley	"In Vivo Tissue Characterization Using Quantitative Computed Tomography: A Review," <i>Journal of Medical Engineering & Technology</i> , Vol. 14, No. 6, pp. 233-242 (1990)
	HX	Cummings et al.	"Bone Density at Various Sites for Prediction of Hip Fractures," <i>The Lancet</i> , Vol. 341, pp. 72-75 (1993)
	HY	Davies et al.	"A Minimum Description Length Approach to Statistical Shape Modeling," <i>IEEE Transaction on Medical Imaging</i> , Vol. 21, No. 5, pp. 525-537 (2002)
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	IL	Gudmundsdottir et al.	"Vertebral Bone Density in Icelandic Women Using Quantitative Computed Tomography Without an External Reference Phantom," <i>Osteoporosis Int.</i> , Vol. 3, pp. 84-89 (1993)
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	JJ	Russ	"The Image Processing Handbook," 3 rd Edition, North Carolina State Univ., Chapter 7: Processing Binary Images, pp. 494-501 (1998)
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	JS	Verhoeven et al.	"Densitometric Measurement of the Mandible: Accuracy and Validity of Intraoral Versus Extraoral Radiographic Techniques in an In Vitro Study," <i>Clin. Oral Impl. Res.</i> , Vol. 9, pp. 333-342 (1998)
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	JV	International Searching Authority	International Search Report – Appl. No. PCT/US 03/030004, dated February 25, 2004 (5 pages)
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Examiner Signature: _____

Date Considered: _____

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